

	L #	Hits	Search Text
1	L1	12337	(visual\$4 view\$3 display\$3 presentation) adj3 (manager handler engine mechanism applet program application code) same (customiz\$5 inuput\$4 entry alter\$5 chang\$3 modif\$4 edit\$3)
2	L2	166	((web internet html http advertis\$5) adj2 server webserver) and advertis\$5 and 1
3	L4	23	2 and second adj3 (window browser channel connection link\$3)
4	L6	142	(verif\$7 certif\$7) with advertise\$4
5	L7	21	6 and (java\$6 applet)
6	L8	21	6 and (java\$6 applet plug adj in plugin)
7	L9	1546	(java\$6 applet plug adj in plugin script instructions) with content with (presesnt\$5 display\$3 view\$3)
8	L10	6	6 and 9
9	L12	51	send\$3 adj3 (command request signal instruction code message notif\$7) with (user client subscriber consumer customer) with second adj2 (channel link\$3 connection windows browser)
10	L13	4	12 and advertise\$4
11	L14	0	12 and advertise\$4 and java\$6
12	L15	2	12 and advertise\$4 and (applet plug\$3)
13	L16	746	(command request signal instruction code message notif\$7) with (user client subscriber consumer customer) with second adj2 (channel link\$3 connection windows browser)
14	L17	7	16 and advertise\$4 and (applet plug\$3 java\$6)

	Hits	Search Text
1	55	(web internet) same (file document) with content with instruction
2	5	(web internet) same java same (multimedia video with (audi\$3 sound voice speech\$3) with (text imag\$3)) and (file document) with content with instruction
3	37	(web internet html http) and java and (multimedia video with (audi\$3 sound voice speech\$3) with (text imag\$3)) and (file document) with content with instructions
4	5	(web internet html http) and java and advertisement with content with instructions
5	5	((web internet html http advertis\$5) adj2 server webserver) and advertisement with content with instructions
6	10	(web internet html http advertis\$5 ad) adj2 server and advertis\$5 with content with instructions
7	4	(advertis\$5 ad) adj2 server and advertis\$5 with content with instructions
8	506	(web internet html http advertis\$5 ad) adj2 server and (user client subscriber consumer customer) with (open\$4 start\$3 initia\$4 execut\$4 generat\$3) near3 second
9	52	(web internet html http advertis\$5 ad) adj2 server and (user client subscriber consumer customer) with (open\$4 start\$3 initia\$4 execut\$4 generat\$3) near3 (other new second) with (send\$3 deliver\$3 download\$3 transmi\$4 receiv\$3) with (command\$3 instructions script code)
10	39	((web internet html http advertis\$5 ad) adj2 server and (user client subscriber consumer customer) with (open\$4 start\$3 initia\$4 execut\$4 generat\$3) near3 (other new second) with (send\$3 deliver\$3 download\$3 transmi\$4 receiv\$3) with (command\$3 instructions script code)) not ("2000" "2001" "2002" "2003" "2004").ay.
11	9	(web internet html http advertis\$5 ad) adj2 server and (user client subscriber consumer customer) with (open\$4 start\$3 initia\$4 execut\$4 generat\$3) near3 (other new second) adj3 (channel link\$3 connect\$3 window) with (command\$3 instructions script code)

	Hits	Search Text
12	163	(web internet html http advertis\$5 ad) adj2 server and (user client subscriber consumer customer) with (other new second) adj3 (channel link\$3 connect\$3 window) with (accept\$4 transfer\$4 receiv\$3 download\$3)
13	15	(web internet html http advertis\$5 ad) adj2 server and (user client subscriber consumer customer) with (open\$4 start\$3 initia\$4 execut\$4 generat\$3) near3 (other new second) adj3 (channel link\$3 connect\$3 window) with (accept\$4 transfer\$4 receiv\$3 download\$3)
14	5	(web internet html http advertis\$5 ad) adj2 server and (user client subscriber consumer customer) with (open\$4 start\$3 initia\$4 execut\$4 generat\$3) near3 (other additional second) adj3 (channel link\$3 connect\$3 window) with (accept\$4 transfer\$4 receiv\$3 download\$3)
15	0	gish.inv. and advertise\$4
16	15	gish.inv. and (web internet) and presentation
17	1	(web internet html http advertis\$5 ad) adj2 server and (user client subscriber consumer customer) with (open\$4 start\$3 initia\$4 execut\$4 generat\$3) near3 (other additional second) adj3 (channel browser) with (accept\$4 transfer\$4 receiv\$3 download\$3)
18	188	(web internet html http advertis\$5 ad) adj2 server and (user client subscriber consumer customer) with (other additional second) adj3 (channel browser)
19	7	(web internet html http advertis\$5 ad) adj2 server and (user client subscriber consumer customer) with (other additional second) adj3 (channel browser) with command\$3



US005915001A

United States Patent [19]
Uppaluru

[11] **Patent Number:** **5,915,001**
[45] **Date of Patent:** **Jun. 22, 1999**

[54] **SYSTEM AND METHOD FOR PROVIDING AND USING UNIVERSALLY ACCESSIBLE VOICE AND SPEECH DATA FILES**

[75] Inventor: **Premkumar V. Uppaluru**, Cupertino, Calif.

[73] Assignee: **Vois Corporation**, Redwood City, Calif.

[21] Appl. No.: **08/748,943**

[22] Filed: **Nov. 14, 1996**

[51] Int. Cl.⁶ **H04M 1/64**

[52] U.S. Cl. **379/88.22; 379/88.17**

[58] **Field of Search** **379/67, 88, 89, 379/93.05, 201, 67.1, 88.01, 88.04, 88.16, 88.17, 88.19, 88.2, 88.21, 88.22, 88.23, 88.24, 88.27; 704/270, 271, 272, 275; 370/401; 395/200.3, 200.33, 200.47, 200.48, 200.49, 200.55**

[56] **References Cited**

U.S. PATENT DOCUMENTS

4,053,710	10/1977	Advani et al.	..... 179/1 SB
4,253,157	2/1981	Kirschner et al.	..... 364/900
4,534,056	8/1985	Feilchenfeld et al.	..... 381/42
4,648,061	3/1987	Foster	..... 264/900
4,653,097	3/1987	Watanabe et al.	..... 381/42
4,659,877	4/1987	Dorsey et al.	..... 379/88
4,763,278	8/1988	Rajasekaran et al.	..... 364/513.5
4,785,408	11/1988	Britton et al.	..... 364/513.5
4,788,643	11/1988	Tripp et al.	..... 364/407
4,831,551	5/1989	Schalk et al.	..... 364/513.5
4,833,713	5/1989	Muroi et al.	..... 381/43
4,839,853	6/1989	Deerwester et al.	..... 364/900
4,896,319	1/1990	Lidinsky et al.	..... 370/60
4,922,538	5/1990	Tchorzewski	..... 381/42
4,945,476	7/1990	Bodick et al.	..... 364/413.02
4,953,085	8/1990	Atkins	..... 364/408
4,972,349	11/1990	Kleinberger	..... 364/900
4,989,248	1/1991	Schalk et al.	..... 381/42
5,007,081	4/1991	Schmuckal et al.	..... 379/354
5,020,107	5/1991	Rohani et al.	..... 381/43
5,054,082	10/1991	Smith et al.	..... 381/42

5,062,074	10/1991	Kleinberger	..... 364/900
5,127,043	6/1992	Hunt et al.	..... 379/88
5,144,672	9/1992	Kuriki	..... 381/41
5,146,439	9/1992	Jachmann et al.	..... 369/25
5,224,163	6/1993	Gasser et al.	..... 380/30
5,243,643	9/1993	Sattar et al.	..... 379/88
5,247,497	9/1993	Cohn	..... 369/26
5,247,575	9/1993	Sprague et al.	..... 380/9
5,255,305	10/1993	Sattar	..... 379/34
5,274,695	12/1993	Green	..... 379/88

(List continued on next page.)

OTHER PUBLICATIONS

Hemphill, et al., "Surfing the Web by Voice", Multimedia '95, Oct. 1995, pp. 215-221.

Nahm, E.R., "Speech Recognition Makes Using the Internet Easier Than Ever—Press Release", Sep. 12, 1996, pp. 1-2. Dave Krupinski; "Computer Telephony and the Internet"; 1996 Stylus Product Group; published on the World Wide Web at the URL "http://www.stylus.com"; publication date unknown but prior to Nov. 14, 1996; pages not numbered.

Primary Examiner—Scott Weaver
Attorney, Agent, or Firm—Fenwick & West, LLP

[57] **ABSTRACT**

A system and method provides universal access to voice-based documents containing information formatted using MIME and HTML standards using customized extensions for voice information access and navigation. These voice documents are linked using HTML hyper-links that are accessible to subscribers using voice commands, touch-tone inputs and other selection means. These voice documents and components in them are addressable using HTML anchors embedding HTML universal resource locators (URLs) rendering them universally accessible over the Internet. This collection of connected documents forms a voice web. The voice web includes subscriber-specific documents including speech training files for speaker dependent speech recognition, voice print files for authenticating the identity of a user and personal preference and attribute files for customizing other aspects of the system in accordance with a specific subscriber.

11 Claims, 12 Drawing Sheets

